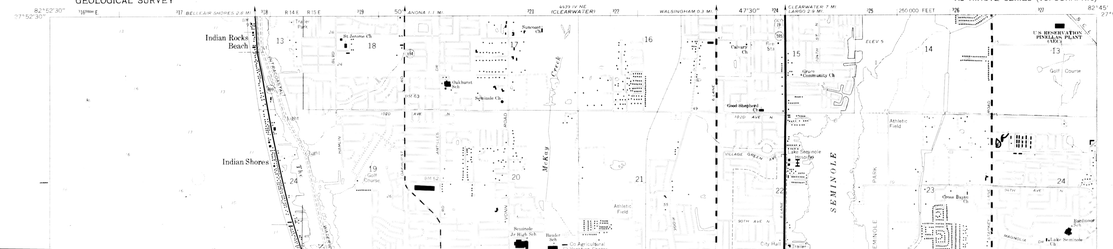
TM 89/2:85/(5)map A2

I49.89/2:85(15)mapA2

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF FLORIDA

SEMINOLE QUADRANGLE
FLORIDA--PINELLAS CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



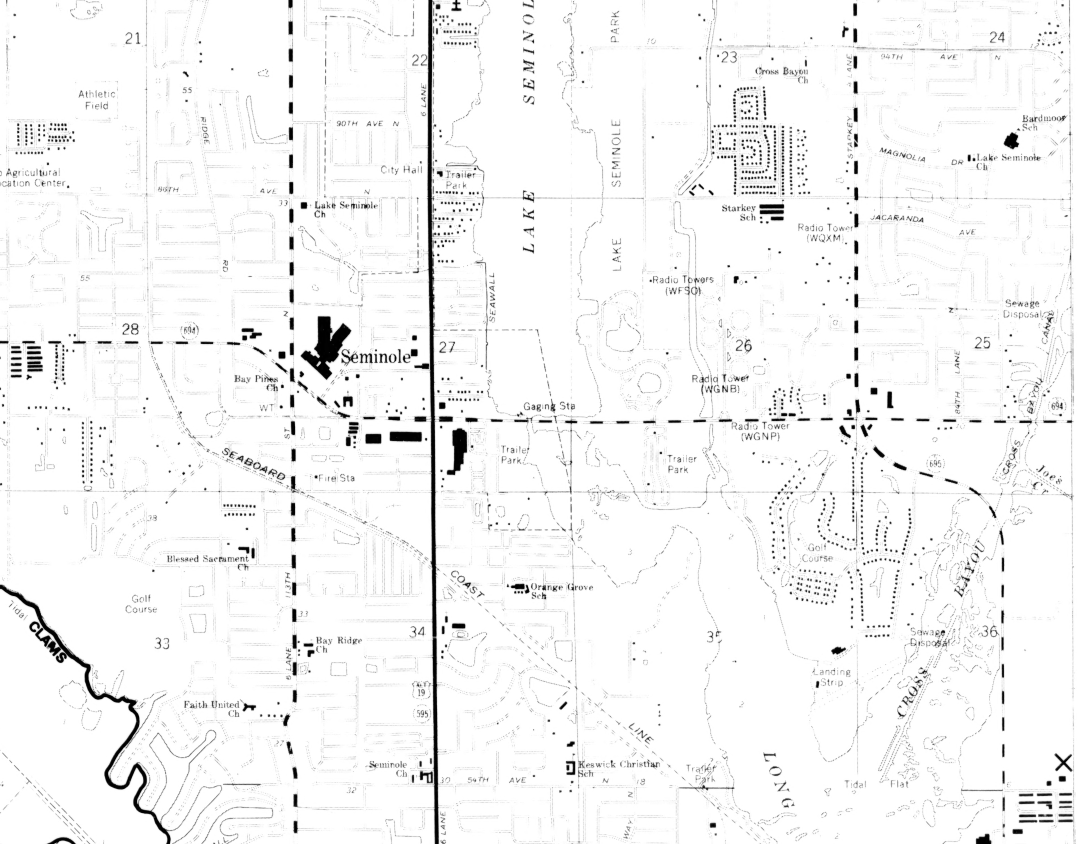

MAP A2

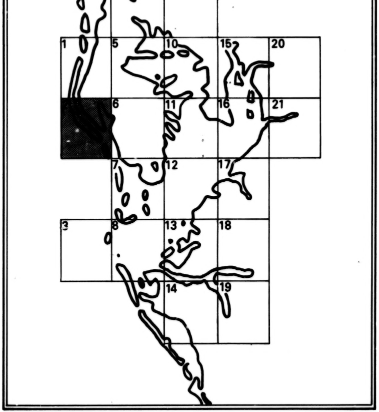
# TAMPA BAY ENVIRONMENTAL ATLAS

## BIOLOGICAL RESOURCES

### SEMINOLE

Indian Shores
The Narrows
24
19
Golf Course
BM 52
20
26
RD
OAKHURST
VONN
WATERWAY
Seminole Jr High Sch
Bauder Sch
86TH AVE N
Seminole Sr High Sch
Seminole
Light
Sewage Disposal
Garden Sanctuary
Chapel-on-the-Hill
Light
30
29
BM 18
Conch Key
Light
Light
32
CLAMS
4 LANE
Light
31
INTRACOASTAL
Townhall
Redington Shores
AVE
173D
SEAWALL
T 30 S
T 31 S
Municipal Bldg
North Redington Beach
G


21
22
23
24
PARK
Cross Bayou Ch
94TH AVE N
Athletic Field
55
RIDGE
90TH AVE N
6 LANE
SEMINOLE
Bardmoor Sch
Agricultural
ocation Center
City Hall
Trailer Park
MAGNOLIA DR
Lake Seminole Ch
STARKEY LANE
86TH AVE N
33
Lake Seminole Ch
Starkey Sch
JACARANDA AVE
Radio Tower (WQXM)
LAKE
RD
55
SEAWALL
Radio Towers (WFSO)
N
Sewage Disposal
CANAL
28
694
Seminole
27
26
25
Bay Pines Ch
Radio Tower (WGNB)
84TH LANE
BAYOU
WT
Gaging Sta
694
ST
Radio Tower (WGNP)
Trailer Park
Trailer Park
SEABOARD
Fire Sta
695
CROSS
Joe's Cr
38
Blessed Sacrament Ch
Golf Course
113TH
COAST
Orange Grove Sch
BAYOU
Golf Course
Tidal
CLAMS
33
33
34
35
Sewage Disposal
36
Bay Ridge Ch
6 LANE
Landing Strip
ALT 19
595
CROSS
Faith United Ch
LINE
27
LONG
Seminole Ch
30
54TH AVE N
18
Keswick Christian Sch
Trailer Park
Tidal Flat
32
6 LANE
WAY


1
5
10
15
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17
3
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18
14
19

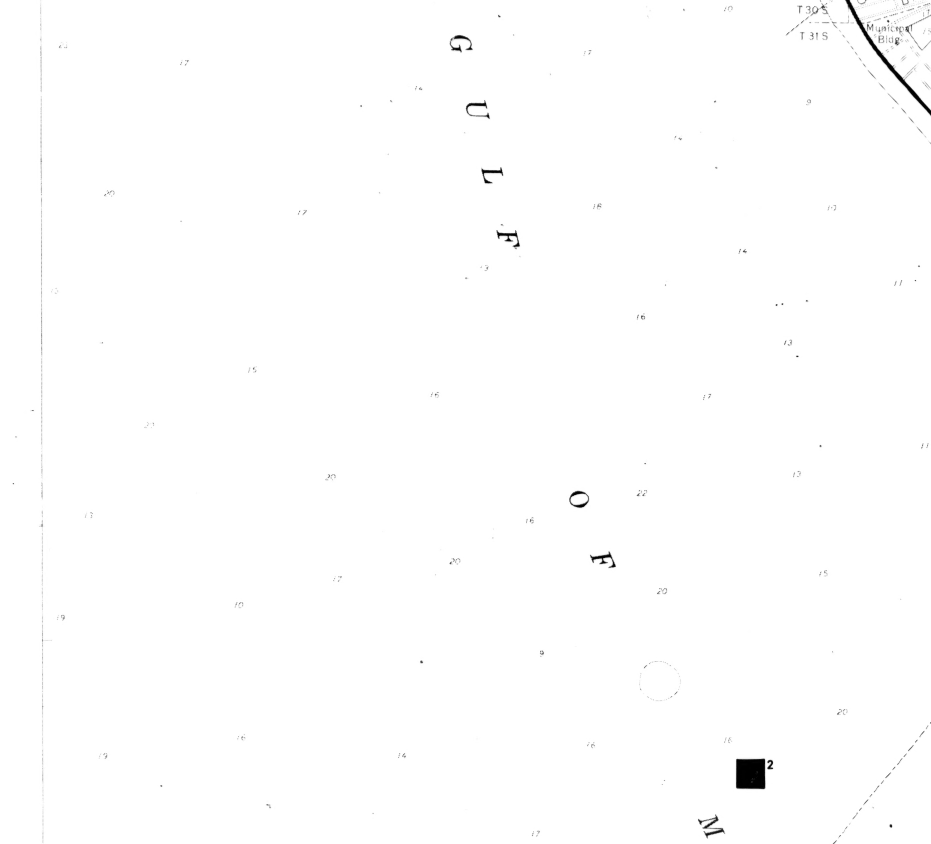
Scale 1:24,000

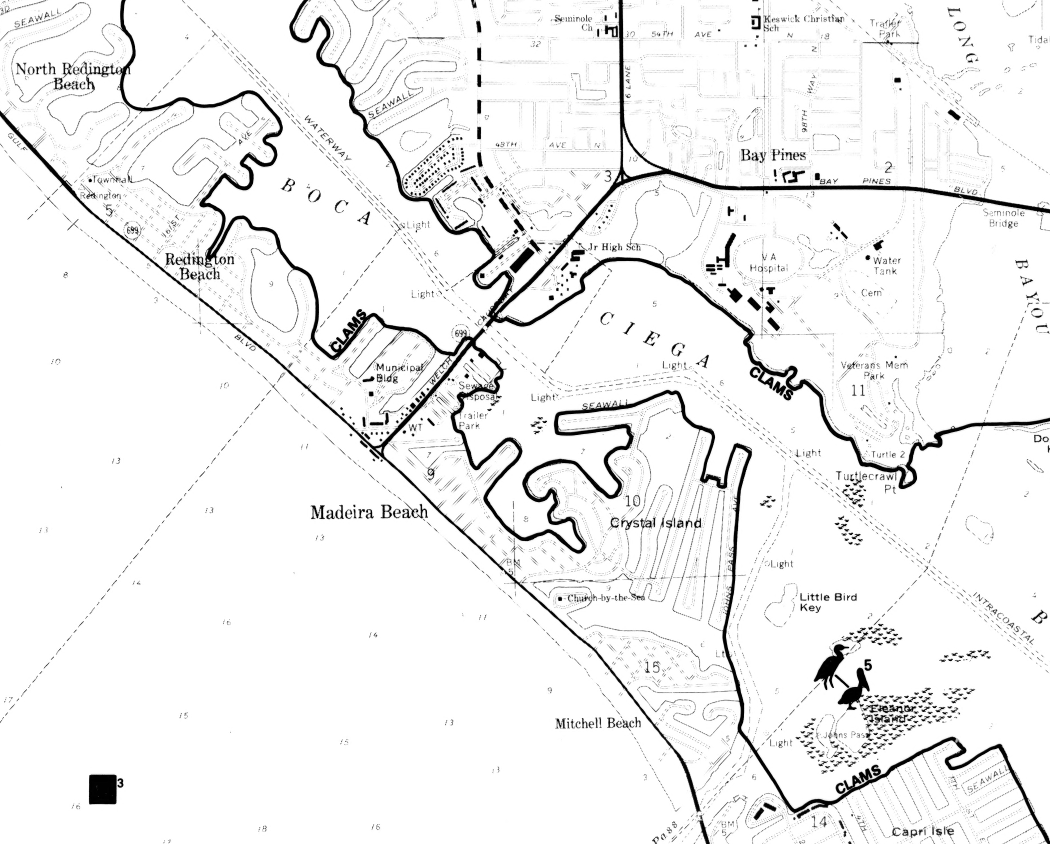
1984

TOPICAL MAPS IN THIS ATLAS:
A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal
Transverse Mercator
10,000-foot grid ticks based on Florida coordinate
system, east and west zones

Overlay material compiled in 1984 from
latest available data obtained from
Federal, State and Local government


GULF OF M
T 30 S
T 31 S
Municipal Bldg
2


SEAWALL
North Redington Beach
Seminole Ch
54TH AVE N
Keswick Christian Sch
Trailer Park
LONG
Tida
SEAWALL
WATERWAY
6 LANE
98TH WAY
48TH AVE N
Bay Pines
BAY PINES BLVD
3
2
GULF
Townhall
Redington
5
699
B O C A
Light
Jr High Sch
Seminole Bridge
Water Tank
V A Hospital
Redington Beach
Cem
BAYOU
Light
CLAMS
C I E G A
699
INTRACOASTAL
BLVD
Municipal Bldg
WELCH
Light
Sewage Disposal
Veterans Mem Park
11
CLAMS
Light
SEAWALL
Trailer Park
WT
Turtle 2
Light
9
Turtlecrawl Pt
10
Madeira Beach
Crystal Island
JOHNS PASS AVE
BM 5
Light
Little Bird Key
Church-by-the-Sea
INTRACOASTAL
B
15
Lt
5
Eleanor Island
Mitchell Beach
Johns Pass
Light
CLAMS
SEAWALL
3
Pass
BM 5
14
Capri Isle

Flat
695
1
595
Drive-in
Theater
ALT
19
TYRONE BLVD
6 LANE
Abercrombie
Park
ST PETERSBURG
g Leg
Key
12
N
DR
CIEGA
BOCA
ST
PARK
A Y
Light
The Jungle
13
WATERWAY
CLAMS

Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There are no maps A19, A20, A21 due to a lack of data.

LEGEND

SHELLFISH HARVEST AREA
(Florida Dept. of Natural Resources)

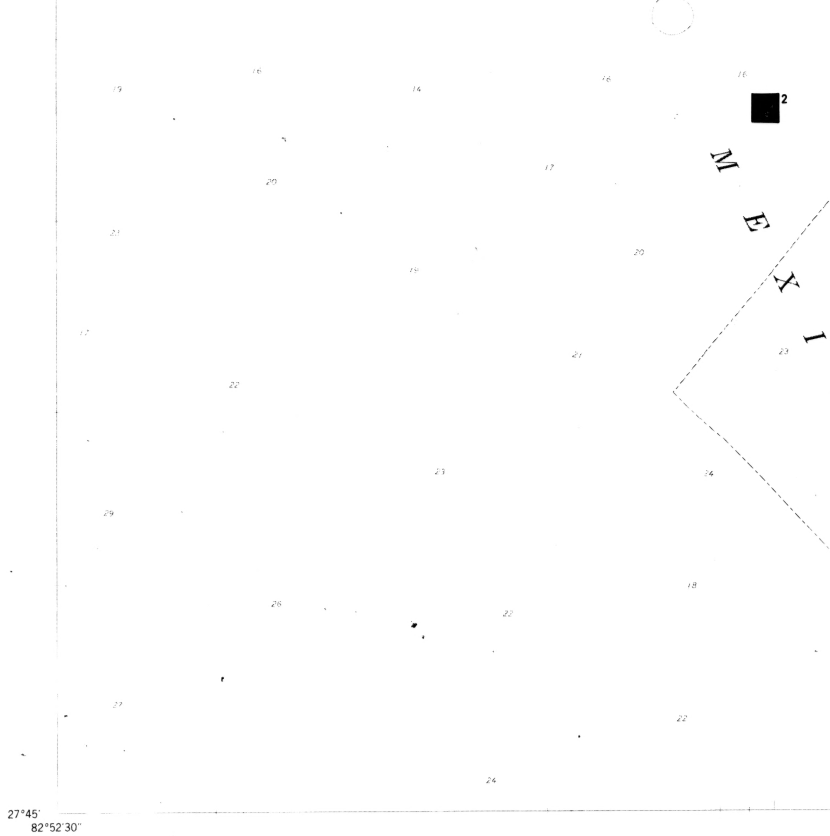
SHA	Shellfish Harvest Approved
SHCA	Shellfish Harvest Conditionally Approved

NOTE: Due to Dept. of Natural Resources (DNR) water quality standards all other estuarine areas are prohibited or unclassified as to shellfish harvest status and are officially unapproved. For further info. on status of harvest areas contact DNR - Shellfish Environmental Assessment Section.

Oys-1	Public Oyster Bed
Oys-2	Private Oyster Bed (Lease)
CLAMS	Clam Bed

FINFISH SPAWNING, NURSERY AND HARVEST AREAS
(Recreational Hook and Line Fishing)

SPECIES #	FINFISH	SPAWNING													NURSERY AREA¹	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE¹	MAJOR ADULT HABITATS						MIGRATION TYPE²
	CATEGORY Common Name	LOCATION¹	SEASON													Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
			J		M		M		J		S		N																	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2


M E X I
2
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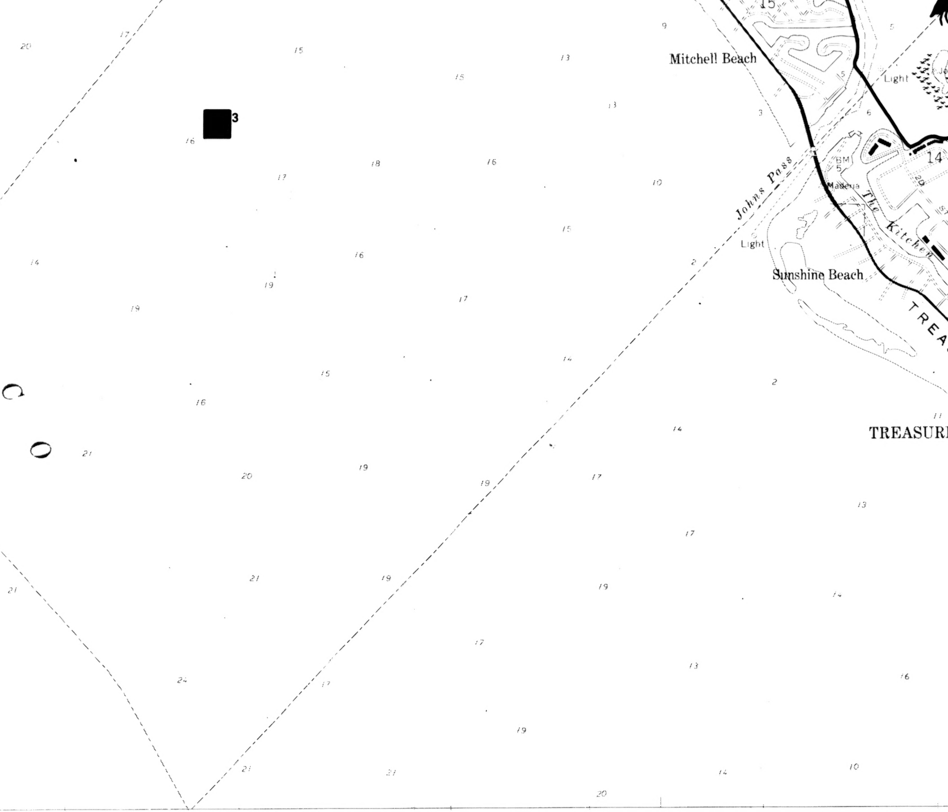
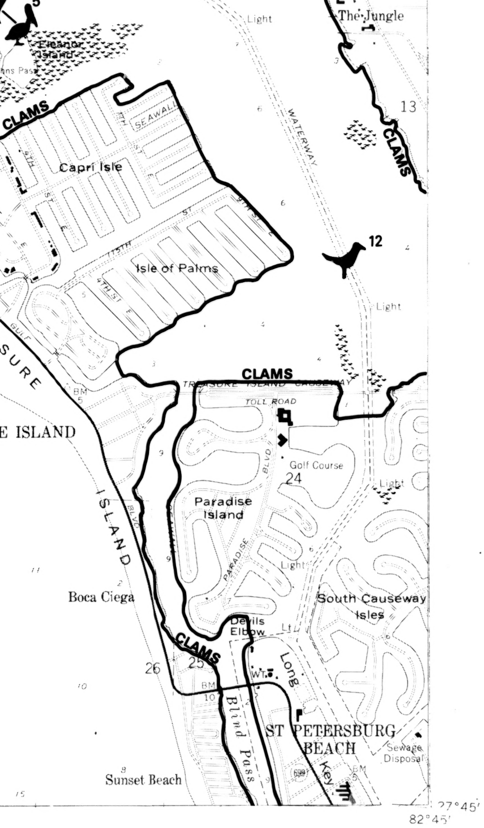
29
18
26
22
27
22
24
27°45'
82°52'30"


Mitchell Beach
Light
Johns Pass
Light
Sunshine Beach
Madeira
BM 5
The Kitchen
TREAS
TREASUR
14
15
3
C
O

SCALE 1:24 000


5
Light
The Jungle
Eleanor Island
ns Pass
CLAMS
SEAWALL
Capri Isle
13
WATERWAY
CLAMS
12
Isle of Palms
Light
CLAMS
TREASURE ISLAND CAUSEWAY
TOLL ROAD
E ISLAND
BM
Golf Course
24
Light
Paradise Island
ISLAND
BLVD
PARADISE
Light
Boca Ciega
South Causeway Isles
Devils Elbow
Lt
CLAMS
26
25
BM
WT
Long Key
Blind Pass
ST PETERSBURG BEACH
Sewage Disposal
699
BM
Sunset Beach
27°45'
82°45'

FINFISH SPAWNING, NURSERY AND HARVEST AREAS

(Recreational Hook and Line Fishing)

SPECIES #	FINFISH	SPAWNING													NURSERY AREA[1]	MAJOR NURSERY HABITATS							AREA OF ADULT ABUNDANCE[1]	MAJOR ADULT HABITATS						MIGRATION TYPE[2]
	CATEGORY Common Name	LOCATION[1]	SEASON																											
			J		M		M		J		S		N			Seagrass	Mangrove	Saltmarsh	Beach	Coral Reef	Artificial Reef	Open Water		Seagrass	Mangrove	Beach	Coral Reef	Artificial Reef	Open Water	
	ESTUARINE DEPENDENT FISHES																													
1	Red Drum	C	■	■							■	■	■	■	E	●	●	●					E	●	●	●				2
2	Spotted Seatrout	E			■	■	■	■	■	■	■	■			E	●	●	●					E	●	●					2
3	Snook	C					■	■	■						E	●	●	●					E	●	●					2
4	Sheepshead	C			■	■	■								C	●							C-E			●		●		1
5	Southern Flounder	C									■	■	■	■	C-E	●			●				C-E	●		●				2
6	Florida Pompano	CS				■	■	■	■	■	■	■			C-E				●				C-E			●			●	3
7	Striped Mullet	CS	■									■	■	■	E	●	●	●					E	●	●	●				3
8	Gulf Menhaden	C	■	■	■								■	■	E	●	●	●					C-E	●		●			●	3
9	Spanish Sardine	C						■	■	■	■				E	●	●	●					C-E	●		●			●	3
10	Black Drum	C	■	■	■	■	■						■	■	E	●	●	●					E	●	●	●				1
	REEF FISHES																													
11	Red Grouper	CS			■	■	■	■							CS-C	●				●	●		CS				●	●		2
12	Jewfish	CS							■	■					CS-C	●				●	●		CS-C				●	●		2
13	Gag Grouper	CS	■	■	■	■								■	CS-C	●				●	●		CS-C				●	●		2
14	Scamp	CS			■	■									CS	●				●	●		CS				●	●		2
15	Red Snapper	CS							■	■	■	■			CS-C	●				●	●		CS-C				●	●		2
16	Mangrove Snapper	CS				■	■	■	■	■					C-E	●	●						C-E				●	●		2
	COASTAL PELAGIC FISHES																													
17	King Mackerel	OCS					■	■	■	■	■				CS							●	CS-C				●	●	●	4
18	Spanish Mackerel	CS					■	■	■	■	■				CS							●	CS-C				●	●	●	4

[1] KEY:

E — Estuarine
C — Coastal
CS — Continental Shelf
OCS — Outer Continental Shelf

[2] MIGRATION TYPE:

1 — Residentially Restricted
2 — Random Residential Range
3 — Restricted Migration
4 — Extensive Migration

COLONIAL BIRD NESTING SITE *

Number appearing with symbol indicates colony sites. Colony sites and species composition data are included in the narrative.

Shorebird

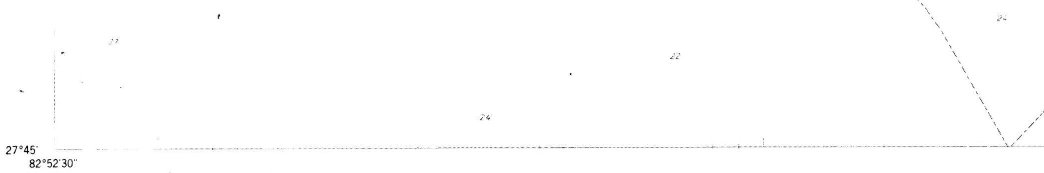
Wading Bird

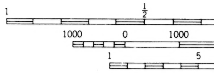
Brown Pelican

WEST INDIAN MANATEE HABITAT

MICROCOPY RESOLUTION TEST CH
NBS 1010a
(ANSI and ISO TEST CHART No

1.0


27
22
24
24
27°45'
82°52'30"


1
½
1000
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1
5

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL COASTAL ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISION MAKERS AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHANGE AND TO RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE REQUIREMENTS AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY AREA INCLUDES A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HILLSBOROUGH, MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO ATTEMPT, IN THE DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS OF PROPRIETARY JURISDICTION OF ANY FEDERAL STATE, OR LOCAL GOVERNMENT TO ESTABLISH THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF GOVERNMENT AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MATERIALS INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY SOURCES CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHER MAPPED FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR PRECISE MEASUREMENTS OF DISTANCES OR AREAS.

PRIMARY SOURCES OF MAPPED INFORMATION:

SHELLFISH HARVEST AREAS: Shellfish Harvest Area Maps, Dept. of Natural Resources, 1982.

PUBLIC & PRIVATE OYSTER BEDS: Cooperative Gulf of Mexico Estuarine Inventory and Study, Florida, McNulty, Lindall and Sykes, 1972.

CLAMS: Personal Communication, Discussion of Distribution Clams in Tampa Bay and Adjacent Brackish Waters, Mr. L. Tracy Three T's Clam Company, 1983 Mike Sprague, Draft Maps, Department of Natural Resources, 1984

SCALLOP BEDS: Personal Communication. Mr Bill Lyons Dept. of Natural Resources, Marine Research Laboratory, 1982

FINFISH SPAWNING, NURSERY & HARVEST AREAS: Florida's Fishing Grounds, Moe, 1970.

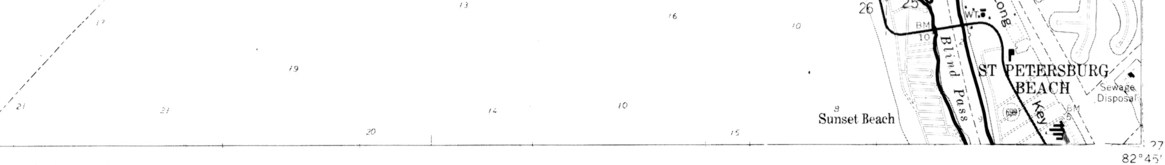
BIRD NESTING SITES: Florida Atlas of Breeding Sites for Herons and Their Allies: 1976-78, Nesbitt, S.A., Ogden, J.C., Kale II, H.W., et.al. U.S Fish and Wildlife Service, 1982. Personal Communication, Maps and Data, Dr H.W Kale II, Florida Audubon Society, 1982

MANATEE HABITAT: Boaters guide to Manatees, the gentle giants, Florida Marine Patrol, 1980.

SEAGRASS BEDS: Tampa Bay Seagrass Maps, 1 10,000 and 1:24,000 Scales, Mangrove Systems Inc 1980 National Wetlands Inventory Maps, 1:24,000 Scale, U.S. Fish and Wildlife Service, 1983.

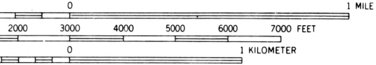
ARTIFICAL REEFS: Computer Printout of Florida Artifical Reefs, U.S. Army Corps of Engineers, 1981. Recreational Use Reefs in Florida: Artifical and Natural, Florida Sea Grant Program, 1979.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE



26
25
BM
10
W.T.
Blind Pass
Long Key
ST PETERSBURG BEACH
Sewage Disposal
Sunset Beach
BM
27
82°45'

SCALE 1:24 000



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5000
6000
7000 FEET
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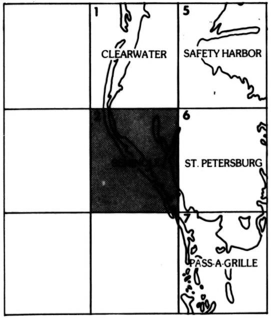
1 KILOMETER



1
CLEARWATER
5
SAFETY HARBOR
6
ST. PETERSBURG
7
PASS-A-GRILLE

colony sites. Colony sites and species - composition data are included in the narrative.

Shorebird

Wading Bird

Brown Pelican

°45′

WEST INDIAN MANATEE HABITAT

STATE MANATEE SANCTUARY

▨ SEAGRASS BEDS

■ ARTIFICAL REEF*
(Permitted by Florida Dept. of Environmental Regulation)
Numbers next to reefs refer to composition data in narrative

**Symbols appearing with numbers are described more fully in the narrative.*

MICROFILMED FROM
BEST AVAILABLE COPY

MICROCOPY RESOLUTION TEST CHART
NBS - 1010a
(ANSI and ISO TEST CHART No. 2)
2.5
2.8
2.2
3.2
4.5
2.0
3.6
5.0
1.8

MICROCOPY RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6


MICROCOPY RESOLUTION TEST CHART
1.0
1.1
1.25
1.4
1.6